MIAMI-DADE COUNTY

DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/pera/

Mesker Door, Inc. 3440 Stanwood Blvd. Huntsville, AL 35811

#### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "N (16 ga) & NVS (18 ga)" Outswing Steel Doors-L.M.I.

APPROVAL DOCUMENT: Drawing No. S-4107, titled "Commercial Steel Doors", sheets 1 through 13 of 13, prepared by manufacturer, dated 07/14/11 and last revised on 10/17/11, signed and sealed by Ryan J. King, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant Limitation:

- 1. "NVS" series is limited to Single Door application only.
- 2. "N" series can be single or double doors. See sheet 1 for applicable Design Pressue (DP) table.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence pages E-1, as well as approval document mentioned above. The submitted documentation was reviewed by Ishaq I. Chanda, P.E.



NOA No 10-1202.10 Expiration Date: October 27, 2016 Approval Date: October 27, 2011

Page 1

#### **NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

#### A. DRAWINGS

- 1. Manufacturer's die drawings and sections.
- 2. Drawing No. S-4107, titled "Commercial Steel Doors", sheets 1 through 13 of 13, prepared by manufacturer, dated 07/14/11 & last revised on 10/17/11, signed and sealed by Ryan J. King, P.E.

#### B. TESTS

- 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of outswing steel doors, prepared by Testing Evaluation Laboratory, Inc., Test Report No. **TEL-01280069A**, **TEL-012800301** both dated 10/27/10, signed and sealed by Lyndon F. Schmidt, P. E.

Note: This test report has been revised on 09/22/11 by an addendum letter, signed & sealed by Lyndon F. Schmidt, P. E.

2. Additional Test reports **TEL-01280069** dated 10/27/10 for N-series Louvered Doors per TAS 201, 202 and 203-94, signed and sealed by Lyndon F. Schmidt, P. E.

#### C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC, dated 11/29/10, prepared, signed and sealed by Ryan J. King, P.E.

#### D. QUALITY ASSURANCE

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

#### E. MATERIAL CERTIFICATIONS

- 1. Tensile Test reports No. **TEL0128009-T** (N-series) and **TEL01280301-T** (NVS-series) per ASTME-8, dated 05-09-11, signed and sealed by Lyndon F. Schmidt, P. E.
- 2. Notice of Acceptance No. 07-1016.07 issued to Insulfoam, LLC for their "Expanded Polystyrene Block", expiring on 11/29/12.

#### F. STATEMENTS

- 1. Statement letter of conformance to FBC 2007 & 2010, dated 10/17/11, signed and sealed by Ryan J. King, P.E.
- 2. Statement letter of no financial interest, prepared by RW consultant, dated 11/29/10, signed and sealed by Ryan J. King, P.E.
- 3. Statement of Lab compliance, as part of above test reports.

#### G. OTHER

1. None

Ishaq I. Chanda, P.E.

Product Control Examiner

NOA No 10-1202.10

Expiration Date: October 27, 2016 Approval Date: October 27, 2011

15 hug 1. Chande

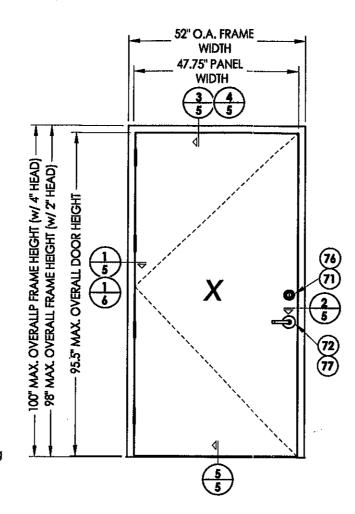
## MESKER DOOR INC. 3440 STANWOOD BLVD. HUNTSVILLE, AL. 35811

# COMMERCIAL STEEL DOOR OUTSWING "LARGE MISSILE IMPACT"

#### **GENERAL NOTES**

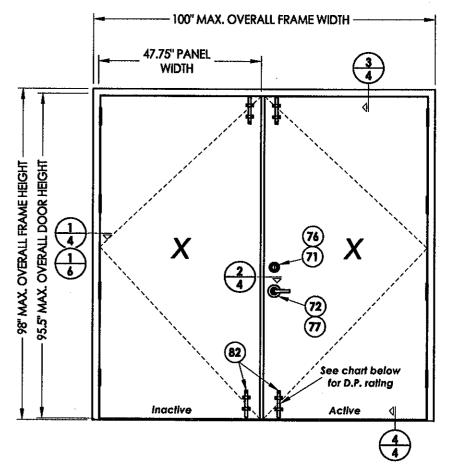
- This product has been evaluated and is in compliance with the 2007/2010 Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
- When used in the "HVHZ", this product complies with section 1626 of the Florida Building Code as a large missile impact resistant product and does not require an impact resistant covering.
- 3. All door frames are 16 ga. (0.060") steel w/ 16 ga. (0.060") "N" Series or 18 ga. (0.048") "NVS" Series door panels. Exception: Use 14 ga. (0.075") door frame w/ 16 ga. (0.060") "N" Series when installing into concrete with Powers Tapper or Dynabolt Sleeve Anchor.
- 4. Door configurations do not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees..
- 5. All steel in contact with aluminum to be painted or plated per FBC requirements.

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SHEET#	DESCRIPTION	
1	Typical elevations, design pressures & general notes	
2	Door panel details ("N" series)	
3	Door panel details ("NV\$" series)	
4	Cross sections ("N" series door)	
5	Cross sections ("NVS" series door)	
6	Horizontal cross sections (wire concrete anchors)	
7	Anchoring Details	
8	Anchoring Details	
9	Anchoring Details	
10	Anchoring Details	
11	Components	
12	Components and corner construction	
13	Bill of materials & components	



"NVS" SERIES (18 ga.)
Outswing Single Door

52.0" X 100.0"	+75.0	-75.0
MAX. OVERALL DIMENSION	DESIGN PRI	SSURE (PSF) NEGATIVE



"N" SERIES (16 ga.)
Outswing Double Door
w/ Surface Bolts

OVERALL FRAME	LO(c/A) LO(c/A) L(e)(i)/:	EBOLT TIONS INACTIVE	DESIGN PRE	SSURE (PSF)
DIMENSION 100.00" x 98.00"	<u>DOOR</u> YES	TIOOR YES	+75.0	-75.0
100.00" x 98.00"	NO	YES	+37.5	-37.5

Approved as complying with the Florida Building Code
Date OCTOBER 27, 2011
NOAS 10 - 202 - 10
Minni Bade Product Control

By Chaq Lhand

DATE: 7/14/11

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

S-4107

SHEET 1 OF 13

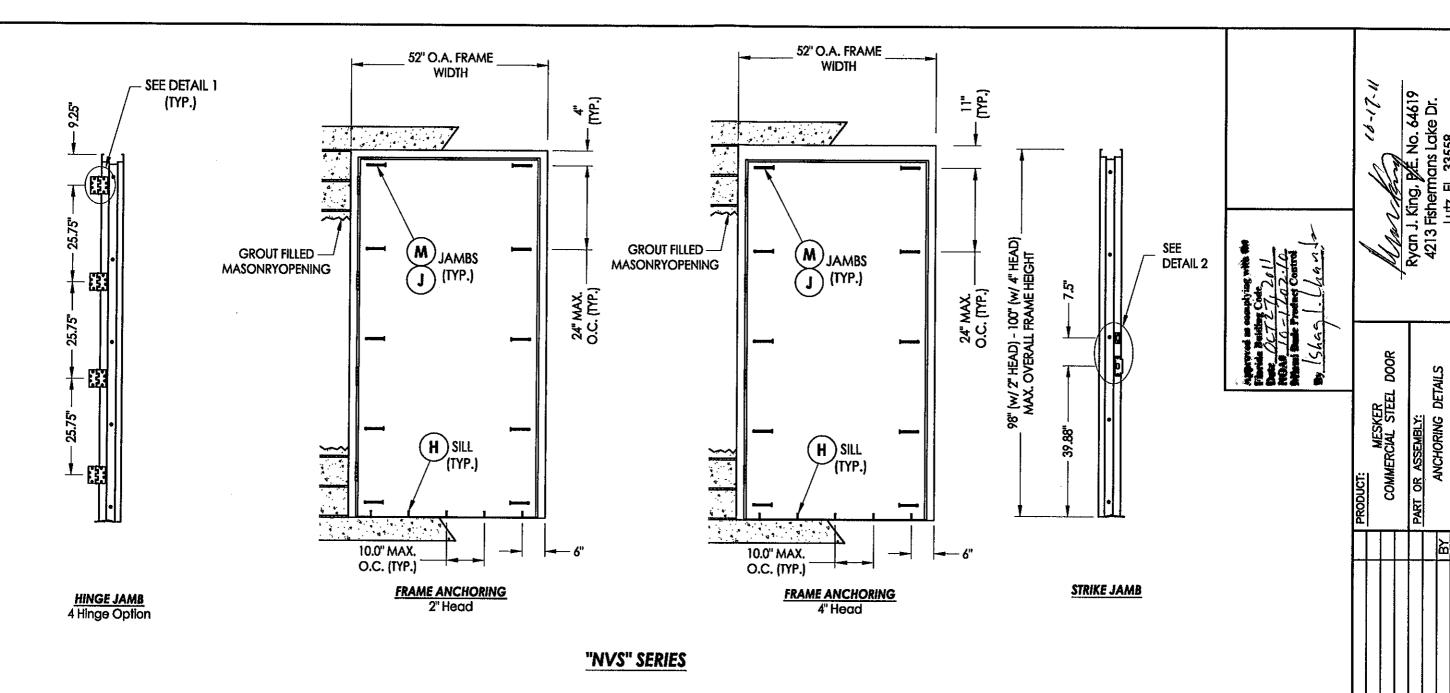
DOOR

MESKER COMMERCIAL STEEL

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1570\D. RWBC Drawings\S-4107.dwg, 2 R:\A - Projects\Project Folders\proj 1501 - 1600\PF

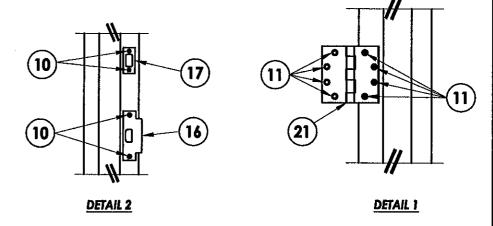
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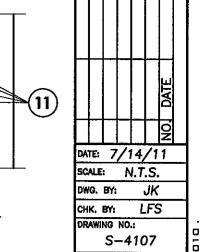


#### **CONCRETE SCREW ANCHOR NOTES:**

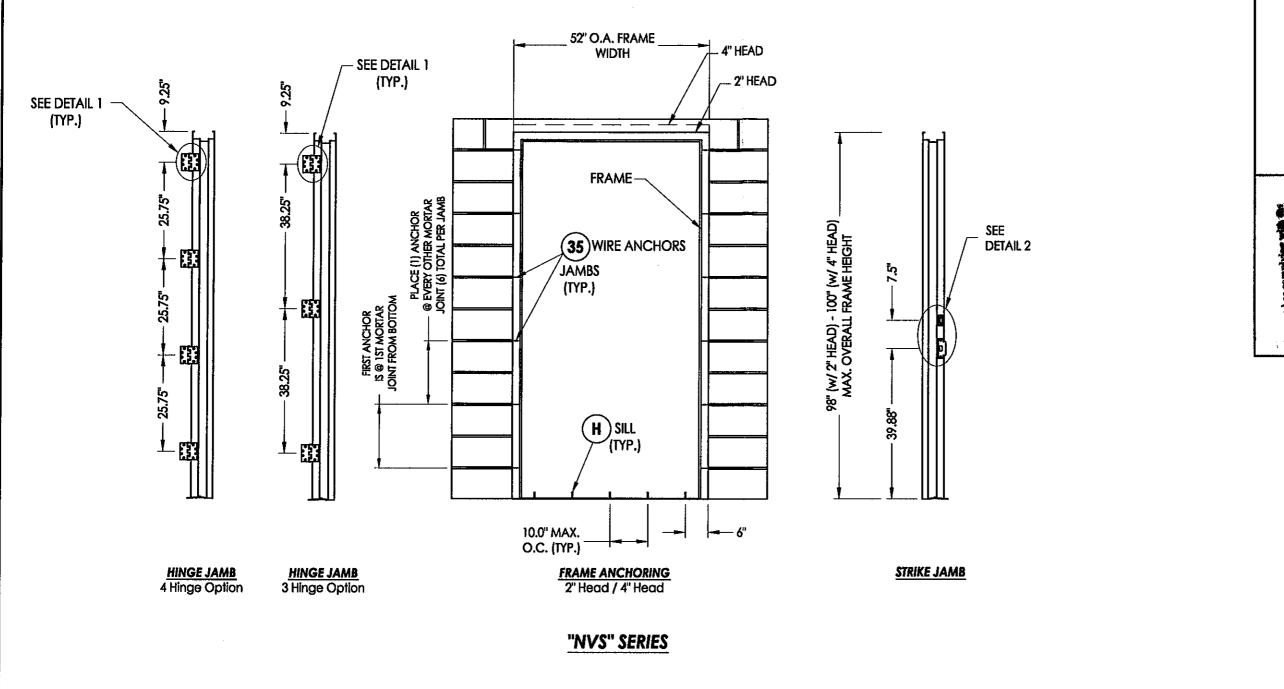
Concrete screw locations at the corners may be adjusted to maintain the minimum edge distance to mortar joints. If concrete screw locations noted as "MAX. ON CENTER" must be adjusted to maintain the minimum edge distance to mortar joints, additional concrete screws may be required to ensure the maximum on center dimension is not exceeded.

TYPE	\$17#	EMBEDMENT	MINIMUM CLEARANCE TO MASONRY EDGE	MINIMUM CLEARANCE TO ADJACENT ANCHOR
(H) ITW (sill only)	1/4"	1-3/4"	2-1/2"	3"
DYNABOLT SLEEVE (M) ANCHOR	3/8"	1-1/2"	2-1/4"	4-1/2"
POWERS TAPPER	3/8"	1-1/2"	4-1/2"	6"





SHEET 7 OF 13

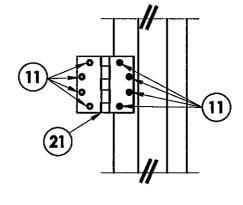


**CONCRETE SCREW ANCHOR NOTES:** 

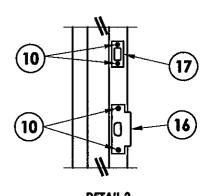
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ANCHOR TYPE	ANCHOR SIZE	MINIMUM EMBEDMENT	MINIMUM CLEARANCE TO MASONRY EDGE	MINIMUM CLEARANCE TO ADJACENT ANCHOR
(H) ITW (sill only)	1/4"	1-3/4"	2-1/2"	3"
(35) Wire Anchor	Ø = 0.19"	9-1/4"	1"	Every other mortar joint

<sup>\*</sup> See detail 1, sheet 6



**DETAIL 1** 



**DETAIL 2** 

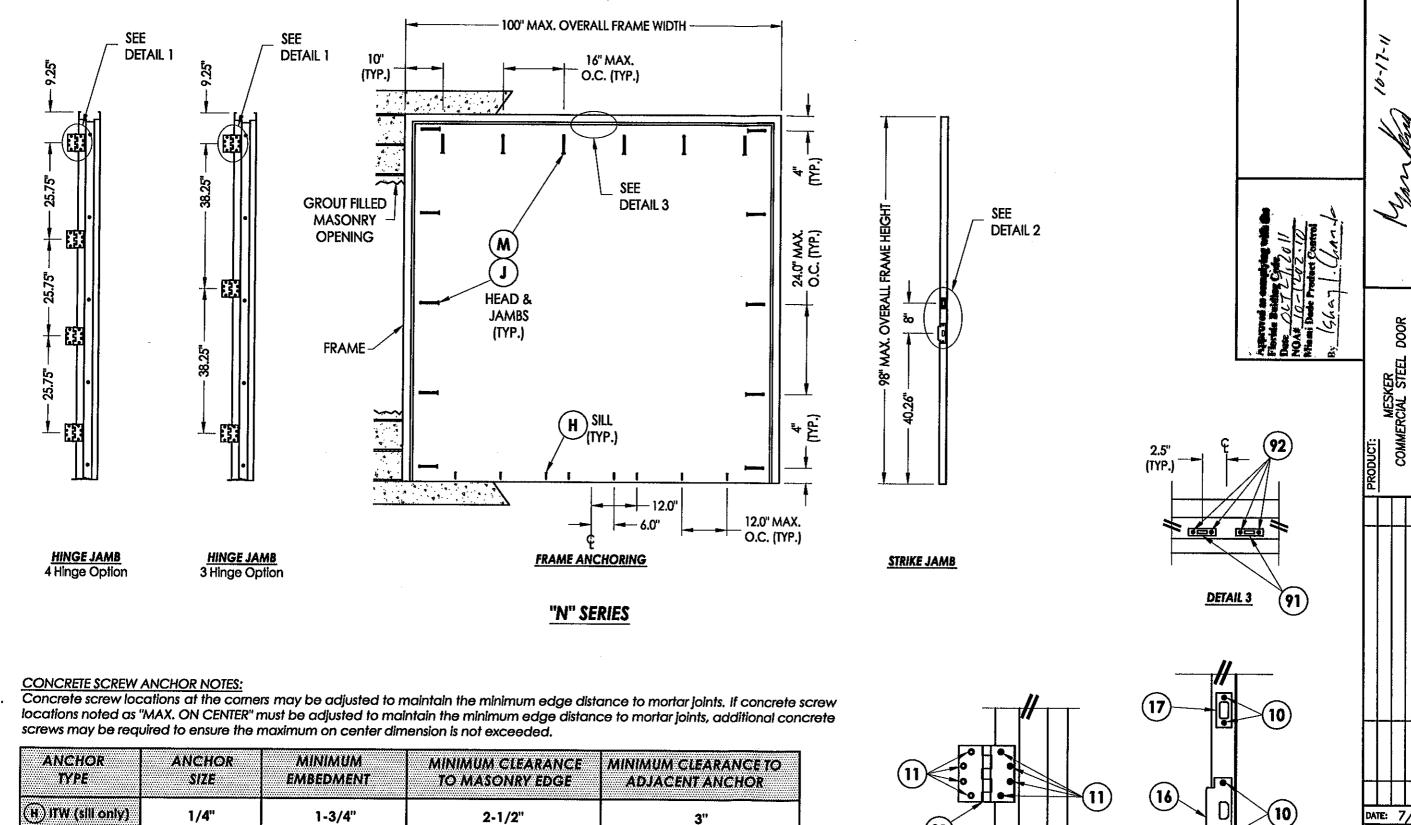
DATE: 7/	14/11
SCALE:	N.T.S.
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CHK. BY:	LFS
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S-	4107

SHEET 8 OF 13

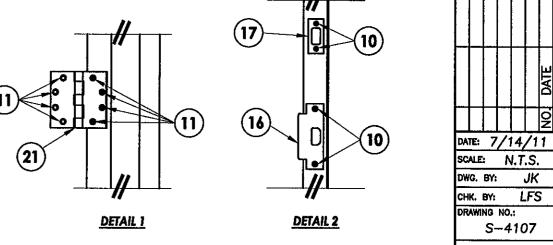
DOOR

MESKER
COMMERCIAL STEEL

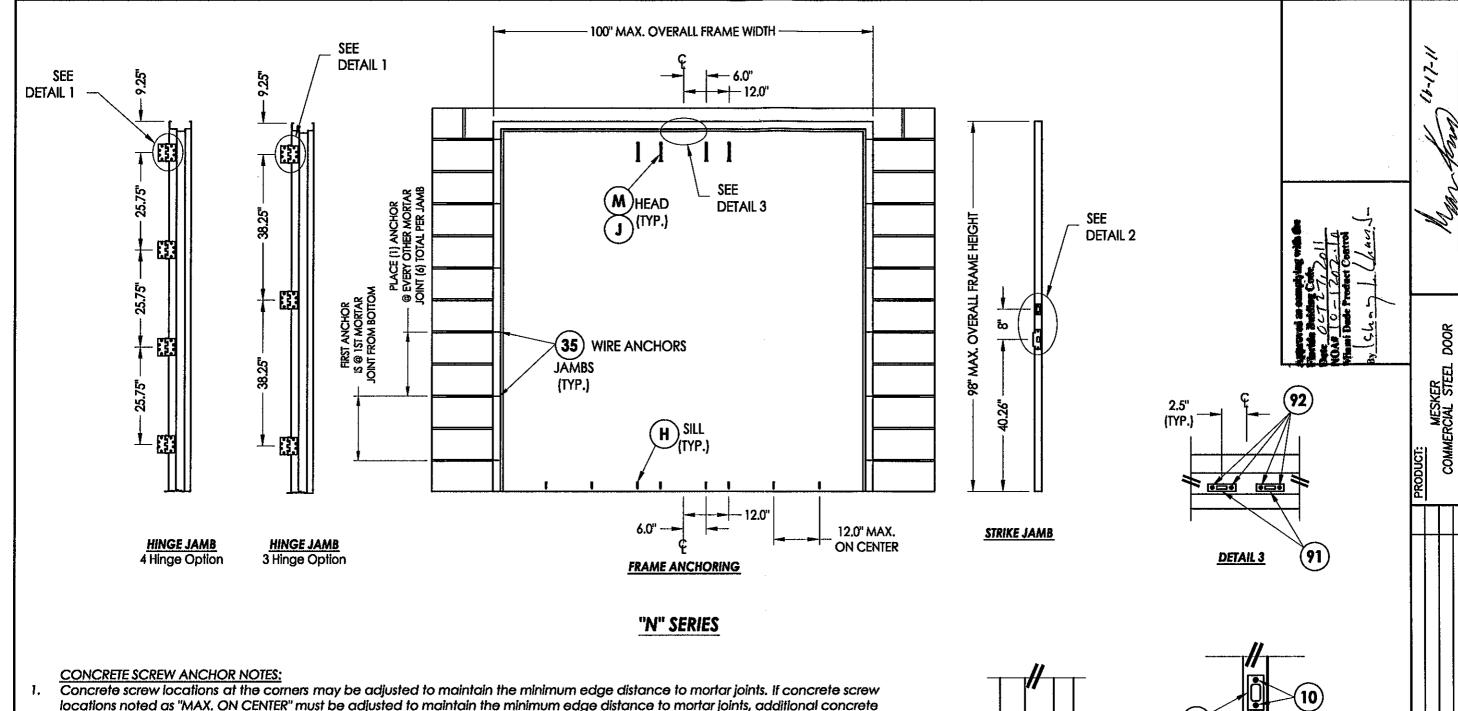
OR ASSEMBLY:
ANCHORING DETAILS



	ANCHOR SIZE	EMBEDMENT	MINIMUM CLEARANCE TO MASONRY EDGE	MINIMUM CLEARANCE TO ADJACENT ANCHOR
(H) ITW (sill only)	1/4"	1-3/4"	2-1/2"	3"
DYNABOLT SLEEVE (M) ANCHOR	3/8"	1-1/2"	2-1/4"	4-1/2"
POWERS TAPPER	3/8"	1-1/2"	4-1/2"	6"



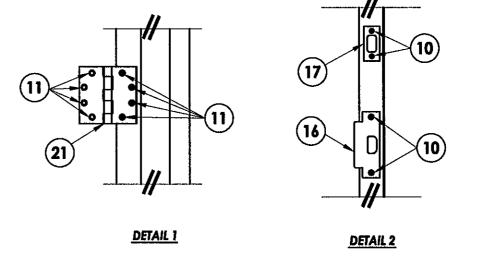
SHEET <u>9</u> OF <u>13</u>



Concrete screw locations at the corners may be adjusted to maintain the minimum edge distance to mortar joints. If concrete screw locations noted as "MAX. ON CENTER" must be adjusted to maintain the minimum edge distance to mortar joints, additional concrete screws may be required to ensure the maximum on center dimension is not exceeded.

ANCHOR TYPE	ANCHOR SIZE		MINIMUM CLEARANCE TO MASONRY EDGE	MINIMUM CLEARANGE TO ADJACENT ANCHOR
(H) ITW (sill only)	1/4"	1-3/4"	2-1/2"	3"
DYNABOLT SLEEVE (M) ANCHOR	3/8"	1-1/2"	2-1/4"	4-1/2"
POWERS TAPPER	3/8"	1-1/2"	4-1/2"	6"
(38) Wire Anchor	Ø = 0.19"	9-1/4"	1"	Every other mortar joint

<sup>\*</sup> See detail 1, sheet 6



DATE: 7/14/11 SCALE: N.T.S. DWG. BY: JK LFS CHK. BY: DRAWING NO.: S-4107 SHEET 10 OF 13

R ASSEMBLY: ANCHORING

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	BILL OF MATERIALS				
ПЕМ#	DESCRIPTION	MATERIAL			
С	1/4" MAX. SHIM SPACE	-			
E	CONCRETE (3,192 PSI MIN.) CONFORMING TO ACI 318 OR GROUT FILLED HOLLOW BLOCK CONFORMING TO ASTM C90 & ASTM 476 (2000 PSI MIN.)	CONCRETE			
Н	1/4" x 2-1/4" ITW PFH CONCRETE SCREW (SILL INSTALLATION ONLY)	STEEL			
J	3/8" X 5" PFH ITW DYNABOLT SLEEVE ANCHOR	STEEL			
М	3/8" X 5" TAPPER CONCRETE SCREW BY POWERS FASTENERS	STEEL			
7	"N" SERIES (16 ga.) STEEL DOOR PANEL (Fy min = 46.9 ksi)	ASTM A1008 G-46.9 STEE			
8	"NVS" SERIES (18 ga.) STEEL DOOR PANEL (Fy min = 29.0 ksi)	ASTM A1008 G-30 STEE			
9	TUBE ANCHOR	STEEL			
10	#12-24 X 1" COMBINATION MACHINE / WOOD SCREW	STEEL			
11	#12-24 x 1/2" SELF TAPPER	STEEL			
15	LOCK BOX REINFORCEMENT	STEEL			
16	ANSI LATCH STRIKE	STEEL			
17	DEADBOLT STRIKE	STEEL			
19	DEADBOLT STRIKE REINFORCEMENT	STEEL			
20	WEATHERSTRIP (PEMKO S-88)	NEOPRENE			
21	4-1/2" X 4-1/2" X 0.125" TEMPLATE HINGE	STEEL			
22	STANDARD (LONG) DOOR HINGE TOP HINGE REINFORCEMENT	STEEL			
23	STANDARD (SHORT) DOOR HINGE MIDDLE BOTTOM REINFORCEMENT	STEEL			
25	FRAME - 16GA (0.06" THK) BY MESKER (2" HEAD)	STEEL			
25A	FRAME - 14GA (0.075" THK) BY MESKER (2" HEAD)	STEEL			
26	FRAME - 16GA (0.06" THK) BY MESKER (4" HEAD) (SINGLE DOOR INSTALLATION ONLY)	STEEL			
27	LATCH STRIKE REINFORCEMENT	STEEL			
28	FRAME HINGE REINFORCEMENT	STEEL			
35	WIRE ANCHOR	ASTM A36 STEEL			
40	THRESHOLD (NATIONAL GUARD PRODUCTS, INC. #896V) - SINGLE OR DBL. DOORS	ALUMINUM			
41	THRESHOLD (PEMKO 2005_V) - SINGLE DOORS ONLY	ALUMINUM			
71	DESIGN HARDWARE D1-S SERIES DEADBOLT	STEEL			
72	DESIGN HARDWARE "Z" SERIES ENTRY	STEEL			
76	DESIGN HARDWARE D2-S SERIES DEADBOLT	STEEL			
77	DESIGN HARDWARE "X" SERIES ENTRY	STEEL			
82	SURFACE BOLT (ROCKWOOD 580-8)	STEEL			
83	3/8" x 1-3/4" L. SEXBOLT (SURFACE BOLT)	STEEL			
87	Z ASTRAGAL (MESKER)	STEEL			
91	SURFACE BOLT STRIKE PLATE	STEEL			
92	#8-18 X 1-1/2" PPH SELF-DRILLING SMS	STEEL			

